

Active Recombinant Human JAK1 Protein, Flag tagged

Cat. No. JAK1-19H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant JAK1 (866-1154) protein that includes amino acids 866-1154 of human JAK1 protein (accession number NP_001307852.1) was expressed in a baculovirus expression system, and contains an N-terminal FLAG tag.
Species	Human
Source	Insect Cells
ProteinLength	866-1154 aa
Description	This gene encodes a membrane protein that is a member of a class of protein-tyrosine kinases (PTK) characterized by the presence of a second phosphotransferase-related domain immediately N-terminal to the PTK domain. The encoded kinase phosphorylates STAT proteins (signal transducers and activators of transcription) and plays a key role in interferon-alpha/beta, interferon-gamma, and cytokine signal transduction. This gene plays a crucial role in effecting the expression of genes that mediate inflammation, epithelial remodeling, and metastatic cancer progression. This gene is a key component of the interleukin-6 (IL-6)/JAK1/STAT3 immune and inflammation response and is a therapeutic target for alleviating cytokine storms. The kinase activity of this gene is directly inhibited by the suppressor of cytokine signalling 1 (SOCS1) protein. Alternative splicing results in multiple transcript variants.
Form	Supplied in 25 mM HEPESNaOH pH 7.5, 300 mM NaCl, 10% glycerol, 0.04% Triton

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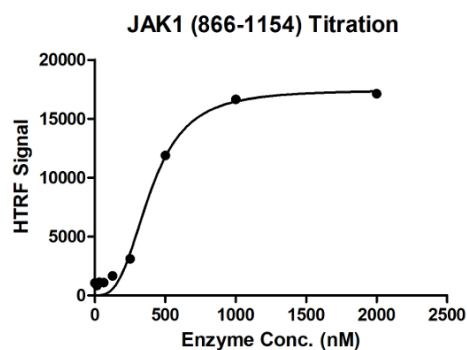
	X-100, and 0.5 mM TCEP.
Molecular Mass	34.2 kDa
Purity	> 95%
Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 centigrade to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Concentration	0.2 µg/µL
GENE INFORMATION	
Gene Name	JAK1 Janus kinase 1 [Homo sapiens (human)]
Official Symbol	JAK1
Synonyms	JAK1; Janus kinase 1; JTK3; AIIDE; JAK1A; JAK1B; tyrosine-protein kinase JAK1; EC 2.7.10.2
Gene ID	3716
mRNA Refseq	NM_001320923
Protein Refseq	NP_001307852
MIM	147795
UniProt ID	P23458

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Activity



SDS-PAGE

JAK1 (866-1154)

